Release notes for ENDF/B Development n-049_In_113 evaluation

April 26, 2017

- checkr   Warnings:

  1. A previous error halted parsing of the current section
     MAT=4925, MF= 1, MT=451 (1): Parsing stopped

     ```
     ERROR(S) FOUND IN MAT=4925, MF= 1, MT=451
         SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER     261 TO     342
     ```

- checkr   Errors:

  1. A variable is outside the allowed ENDF range
     MAT=4925, MF= 1, MT=451 (0): Variable range

     ```
     ERROR(S) FOUND IN MAT=4925, MF= 1, MT=451
         MOD =    1 OUT OF RANGE    0 -    0          RECORD NUMBER    261
     ```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4925, MF= 2, MT=151 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4925, MF= 2, MT=151
         SECTION  2/151 NOT IN DIRECTORY              RECORD NUMBER    344
     ```

  3. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4925, MF= 3, MT= 1 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT=  1
         SECTION  3/  1 NOT IN DIRECTORY              RECORD NUMBER    685
     ```

  4. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4925, MF= 3, MT= 2 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT=  2
         SECTION  3/  2 NOT IN DIRECTORY              RECORD NUMBER    717
     ```

  5. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4925, MF= 3, MT= 4 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT=  4
         SECTION  3/  4 NOT IN DIRECTORY              RECORD NUMBER    749
     ```

  6. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4925, MF= 3, MT= 16 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 16
         SECTION  3/ 16 NOT IN DIRECTORY              RECORD NUMBER    769
     ```

  7. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4925, MF= 3, MT= 17 (0): Directory (b)

1

```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 17
        SECTION  3/ 17 NOT IN DIRECTORY                RECORD NUMBER    779
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=4925, MF= 3, MT= 22 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 22
        SECTION  3/ 22 NOT IN DIRECTORY                RECORD NUMBER    785
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=4925, MF= 3, MT= 28 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 28
        SECTION  3/ 28 NOT IN DIRECTORY                RECORD NUMBER    799
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 32 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 32
        SECTION  3/ 32 NOT IN DIRECTORY                RECORD NUMBER    811
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 33 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 33
        SECTION  3/ 33 NOT IN DIRECTORY                RECORD NUMBER    819
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 51 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 51
        SECTION  3/ 51 NOT IN DIRECTORY                RECORD NUMBER    826
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 52 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 52
        SECTION  3/ 52 NOT IN DIRECTORY                RECORD NUMBER    846
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 53 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 53
        SECTION  3/ 53 NOT IN DIRECTORY                RECORD NUMBER    866
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 54 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 54
    SECTION  3/ 54 NOT IN DIRECTORY                RECORD NUMBER    884
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 55 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 55
    SECTION  3/ 55 NOT IN DIRECTORY                RECORD NUMBER    902
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 56 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 56
    SECTION  3/ 56 NOT IN DIRECTORY                RECORD NUMBER    919
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 57 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 57
    SECTION  3/ 57 NOT IN DIRECTORY                RECORD NUMBER    936
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 58 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 58
    SECTION  3/ 58 NOT IN DIRECTORY                RECORD NUMBER    953
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 59 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 59
    SECTION  3/ 59 NOT IN DIRECTORY                RECORD NUMBER    969
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 60 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 60
    SECTION  3/ 60 NOT IN DIRECTORY                RECORD NUMBER    985
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 61 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 61
    SECTION  3/ 61 NOT IN DIRECTORY                RECORD NUMBER   1000
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 62 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 62
    SECTION  3/ 62 NOT IN DIRECTORY                    RECORD NUMBER    1015
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 63 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 63
    SECTION  3/ 63 NOT IN DIRECTORY                    RECORD NUMBER    1030
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 64 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 64
    SECTION  3/ 64 NOT IN DIRECTORY                    RECORD NUMBER    1044
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 65 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 65
    SECTION  3/ 65 NOT IN DIRECTORY                    RECORD NUMBER    1058
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 66 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 66
    SECTION  3/ 66 NOT IN DIRECTORY                    RECORD NUMBER    1071
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 67 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 67
    SECTION  3/ 67 NOT IN DIRECTORY                    RECORD NUMBER    1084
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 68 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 68
    SECTION  3/ 68 NOT IN DIRECTORY                    RECORD NUMBER    1097
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 69 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 69
    SECTION  3/ 69 NOT IN DIRECTORY                    RECORD NUMBER    1109
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 70 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 70
        SECTION  3/ 70 NOT IN DIRECTORY                 RECORD NUMBER    1121
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 71 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 71
        SECTION  3/ 71 NOT IN DIRECTORY                 RECORD NUMBER    1133
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 72 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 72
        SECTION  3/ 72 NOT IN DIRECTORY                 RECORD NUMBER    1144
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 73 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 73
        SECTION  3/ 73 NOT IN DIRECTORY                 RECORD NUMBER    1155
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 74 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 74
        SECTION  3/ 74 NOT IN DIRECTORY                 RECORD NUMBER    1165
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT= 91 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4925, MF= 3, MT= 91
        SECTION  3/ 91 NOT IN DIRECTORY                 RECORD NUMBER    1175
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT=102 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4925, MF= 3, MT=102
        SECTION  3/102 NOT IN DIRECTORY                 RECORD NUMBER    1185
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT=103 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4925, MF= 3, MT=103
        SECTION  3/103 NOT IN DIRECTORY                 RECORD NUMBER    1211
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT=104 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 3, MT=104
           SECTION  3/104 NOT IN DIRECTORY                 RECORD NUMBER    1227
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT=105 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 3, MT=105
           SECTION  3/105 NOT IN DIRECTORY                 RECORD NUMBER    1240
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT=106 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 3, MT=106
           SECTION  3/106 NOT IN DIRECTORY                 RECORD NUMBER    1251
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 3, MT=107 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 3, MT=107
           SECTION  3/107 NOT IN DIRECTORY                 RECORD NUMBER    1262
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 2 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT=  2
           SECTION  4/  2 NOT IN DIRECTORY                 RECORD NUMBER    1279
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 16
           SECTION  4/ 16 NOT IN DIRECTORY                 RECORD NUMBER    1492
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 17
           SECTION  4/ 17 NOT IN DIRECTORY                 RECORD NUMBER    1503
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 22
           SECTION  4/ 22 NOT IN DIRECTORY                 RECORD NUMBER    1514
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 28 (0): Directory (b)

6

```
     ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 28
        SECTION  4/ 28 NOT IN DIRECTORY                    RECORD NUMBER    1525
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 32 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 32
        SECTION  4/ 32 NOT IN DIRECTORY                    RECORD NUMBER    1536
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 33 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 33
        SECTION  4/ 33 NOT IN DIRECTORY                    RECORD NUMBER    1547
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 51 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 51
        SECTION  4/ 51 NOT IN DIRECTORY                    RECORD NUMBER    1558
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 52 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 52
        SECTION  4/ 52 NOT IN DIRECTORY                    RECORD NUMBER    1583
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 53 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 53
        SECTION  4/ 53 NOT IN DIRECTORY                    RECORD NUMBER    1608
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 54 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 54
        SECTION  4/ 54 NOT IN DIRECTORY                    RECORD NUMBER    1631
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 55 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 55
        SECTION  4/ 55 NOT IN DIRECTORY                    RECORD NUMBER    1654
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 56
           SECTION  4/ 56 NOT IN DIRECTORY                RECORD NUMBER    1677
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 57
           SECTION  4/ 57 NOT IN DIRECTORY                RECORD NUMBER    1700
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 58
           SECTION  4/ 58 NOT IN DIRECTORY                RECORD NUMBER    1723
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 59 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 59
           SECTION  4/ 59 NOT IN DIRECTORY                RECORD NUMBER    1746
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 60 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 60
           SECTION  4/ 60 NOT IN DIRECTORY                RECORD NUMBER    1769
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 61 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 61
           SECTION  4/ 61 NOT IN DIRECTORY                RECORD NUMBER    1792
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 62
           SECTION  4/ 62 NOT IN DIRECTORY                RECORD NUMBER    1815
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 63
           SECTION  4/ 63 NOT IN DIRECTORY                RECORD NUMBER    1838
```

63. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 64 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 64
       SECTION  4/ 64 NOT IN DIRECTORY                    RECORD NUMBER    1861
```

64. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 65 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 65
       SECTION  4/ 65 NOT IN DIRECTORY                    RECORD NUMBER    1884
```

65. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 66 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 66
       SECTION  4/ 66 NOT IN DIRECTORY                    RECORD NUMBER    1907
```

66. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 67 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 67
       SECTION  4/ 67 NOT IN DIRECTORY                    RECORD NUMBER    1930
```

67. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 68 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 68
       SECTION  4/ 68 NOT IN DIRECTORY                    RECORD NUMBER    1953
```

68. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 69 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 69
       SECTION  4/ 69 NOT IN DIRECTORY                    RECORD NUMBER    1976
```

69. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 70 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 70
       SECTION  4/ 70 NOT IN DIRECTORY                    RECORD NUMBER    1999
```

70. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 71 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 71
       SECTION  4/ 71 NOT IN DIRECTORY                    RECORD NUMBER    2022
```

71. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4925, MF= 4, MT= 72 (0): Directory (b)

9

```
      ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 72
        SECTION  4/ 72 NOT IN DIRECTORY                RECORD NUMBER    2045
```

72. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4925, MF= 4, MT= 73 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 73
        SECTION  4/ 73 NOT IN DIRECTORY                RECORD NUMBER    2068
```

73. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4925, MF= 4, MT= 74 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 74
        SECTION  4/ 74 NOT IN DIRECTORY                RECORD NUMBER    2091
```

74. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4925, MF= 4, MT= 91 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4925, MF= 4, MT= 91
        SECTION  4/ 91 NOT IN DIRECTORY                RECORD NUMBER    2114
```

75. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4925, MF= 5, MT= 16 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4925, MF= 5, MT= 16
        SECTION  5/ 16 NOT IN DIRECTORY                RECORD NUMBER    2138
```

76. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4925, MF= 5, MT= 17 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4925, MF= 5, MT= 17
        SECTION  5/ 17 NOT IN DIRECTORY                RECORD NUMBER    2198
```

77. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4925, MF= 5, MT= 22 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4925, MF= 5, MT= 22
        SECTION  5/ 22 NOT IN DIRECTORY                RECORD NUMBER    2221
```

78. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4925, MF= 5, MT= 28 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4925, MF= 5, MT= 28
        SECTION  5/ 28 NOT IN DIRECTORY                RECORD NUMBER    2408
```

79. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4925, MF= 5, MT= 32 (0): Directory (b)$

```
        ERROR(S) FOUND IN MAT=4925, MF= 5, MT= 32
           SECTION  5/ 32 NOT IN DIRECTORY                   RECORD NUMBER    2546
```

80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4925, MF= 5, MT= 33 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 5, MT= 33
           SECTION  5/ 33 NOT IN DIRECTORY                   RECORD NUMBER    2587
```

81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4925, MF= 5, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4925, MF= 5, MT= 91
           SECTION  5/ 91 NOT IN DIRECTORY                   RECORD NUMBER    2623
```

- `psyche` Warnings:

  1. Strength function in URR not in agreement with PSYCHE's expectations
  FILE 2 / SECTION 151 / ISOTOPE MASS = 113. L = 1 / STRENGTH FUNCTION IS 7.11403E-05 / STRENGTH FUNCTION 7.11403E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

  ```
  FILE  2
     SECTION 151
         ISOTOPE MASS = 113. L =  1
                    STRENGTH FUNCTION IS  7.11403E-05
                              STRENGTH FUNCTION 7.11403E-05
  ... [1 more lines]
  ```

  2. Non-threshold reaction with Q value differing from PSYCHE's expectations
  FILE 3 / SECTION 103 / THE CALCULATED Q 5.46813E+05 DISSAGREES WITH THE GIVEN Q 4.60756E+05 (0): Iffy Q

  ```
  FILE  3
     SECTION 103
            THE CALCULATED Q  5.46813E+05 DISSAGREES WITH THE GIVEN Q  4.60756E+05
  ```

- `recent` Warnings:

  1. Statistical weight of certain L values were incorrect
  0: RRR goof (a)

  ```
  Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
  ==============================================================================
  Retrieval Criteria-----------       MAT
  File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
  Reactions with No Background-    Output (Resonance Contribution)
  ... [644 more lines]
  ```

- `fudge-4.0` Warnings:

  1. Missing a channel with a particular angular momenta combination
  resonances / resolved (Error # 1): missingResonanceChannel

11

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 3.0 and S = 3.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 3.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 4.0 and S = 3.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 4.0 and S = 4.0 for "capture"
       ... plus 1 more instances of this message
```

2. Cross section does not match sum of linked reaction cross sections
   crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.39%
```

- `fudge-4.0` Errors:

  1. The spin statistical weights are off, indicating missing channels
     resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

```
WARNING: The spin statical weights for L=1 sums to 2.0, but should sum to 3.0.  You have too few channels for re
```

  2. Calculated and tabulated Q values disagree.
     reaction label 26: n[multiplicity:'2'] + In112 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -9593055.062850952 eV vs -9448090. eV!
```

  3. Calculated and tabulated Q values disagree.
     reaction label 27: n[multiplicity:'3'] + In111 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -17264712.17698669 eV vs -1.71192e7 eV!
```

  4. Energy range of data set does not match cross section range
     reaction label 27: n[multiplicity:'3'] + In111 / Product: n / Distribution: / uncorrelated
     - energy - XYs2d: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (17272100.0 -> 20000000.0) vs (17272200.0 -> 20000000.0)
```

  5. Calculated and tabulated Q values disagree.
     reaction label 28: n + H1 + Cd112 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -6226257.697845459 eV vs -6087730. eV!
```

  6. Calculated and tabulated Q values disagree.
     reaction label 29: n + H2 + Cd111 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -13396008.1583252 eV vs -1.31776e7 eV!
```

  7. Calculated and tabulated Q values disagree.
     reaction label 30: n + H3 + Cd110 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -14114621.18263245 eV vs -1.39736e7 eV!
```

  8. Calculated and tabulated Q values disagree.
     reaction label 31: In114 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 7125666.946899414 eV vs 7275390. eV!
```

  9. Calculated and tabulated Q values disagree.
     reaction label 32: n + He4 + Ag109 (Error # 0): Q mismatch

12

```
WARNING: Calculated and tabulated Q-values disagree: -3220051.692001343 eV vs -3.0719e6 eV!
```

10. Calculated and tabulated Q values disagree.
    reaction label 33: H1 + Cd113_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 313820.4479827881 eV vs 460756. eV!
```

11. Calculated and tabulated Q values disagree.
    reaction label 34: H2 + Cd112_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -4001691.596908569 eV vs -3777610. eV!
```

12. Calculated and tabulated Q values disagree.
    reaction label 35: H3 + Cd111_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -7138775.217712402 eV vs -6992460. eV!
```

13. Calculated and tabulated Q values disagree.
    reaction label 36: He3 + Ag111_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -8156983.414825439 eV vs -8001830. eV!
```

14. Calculated and tabulated Q values disagree.
    reaction label 37: He4 + Ag110_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 3589148.124923706 eV vs 3738190. eV!
```

- njoy2012 Warnings:

  1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 16
                        only mf4/mf5 provided
```

  2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 17
                        only mf4/mf5 provided
```

  3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 22
                        only mf4/mf5 provided
```

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

   ```
    ---message from conver---cannot do complete particle production for mt= 28
                      only mf4/mf5 provided
   ```

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

   ```
    ---message from conver---cannot do complete particle production for mt= 32
                      only mf4/mf5 provided
   ```

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

   ```
    ---message from conver---cannot do complete particle production for mt= 33
                      only mf4/mf5 provided
   ```

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

   ```
    ---message from conver---cannot do complete particle production for mt= 91
                      only mf4/mf5 provided
   ```